

times, most of the country enjoyed atove normal temperatures. The southern Mackenzie District recorded mean temperatures of more than 21° above normal. Many high temperature records were set across the Northwest Territories. The warm air continued to cause problems in British Columbia. Ski resorts were closing and two bulldozers disappeared into the muskeg. Extreme southern Alberta, which had been without snowcover since the beginning of January, received snow from a storm over the weekend. Snowcover now varies from 17 cm at Lethbridge to 1 cm at Calgary.

Temperatures varied from a maximum of 16° (Calgary, Lethbridge and Rocky Mountain House) to a minimum of -42° (Shepherd Bay). Sandspit B.C. recorded 142.6 mm of precipitation.

NOTE: The data shown in this publication are based on unverified reports from approximately 225 Canadian and 115 northern United States Synoptic stations. ETAMLO MARCAMAO TO WERYOR MANDE

YUKON

Although the extremely warm readings of the previous week were not reported this week, temperatures were still 10° to 20° above normal at most stations. Most sites had maximums around 2° or 3° at the beginning of the week, but slightly cooler below freezing temperatures were general by the 26th. The mercury rose to 5° at Komakuk Beach on January 26th and fell to -35° at Ross River.

Snowfalls amounted to 1 cm to 2 cm at most stations. Watson Lake was an exception, receiving almost 4 cm. Snowdepths remained fairly constant during the week.

The very mild weather has caused problems for exploration companies who depend on icebridges and winter roads for their winter activities.

NORTHWEST TERRITORIES

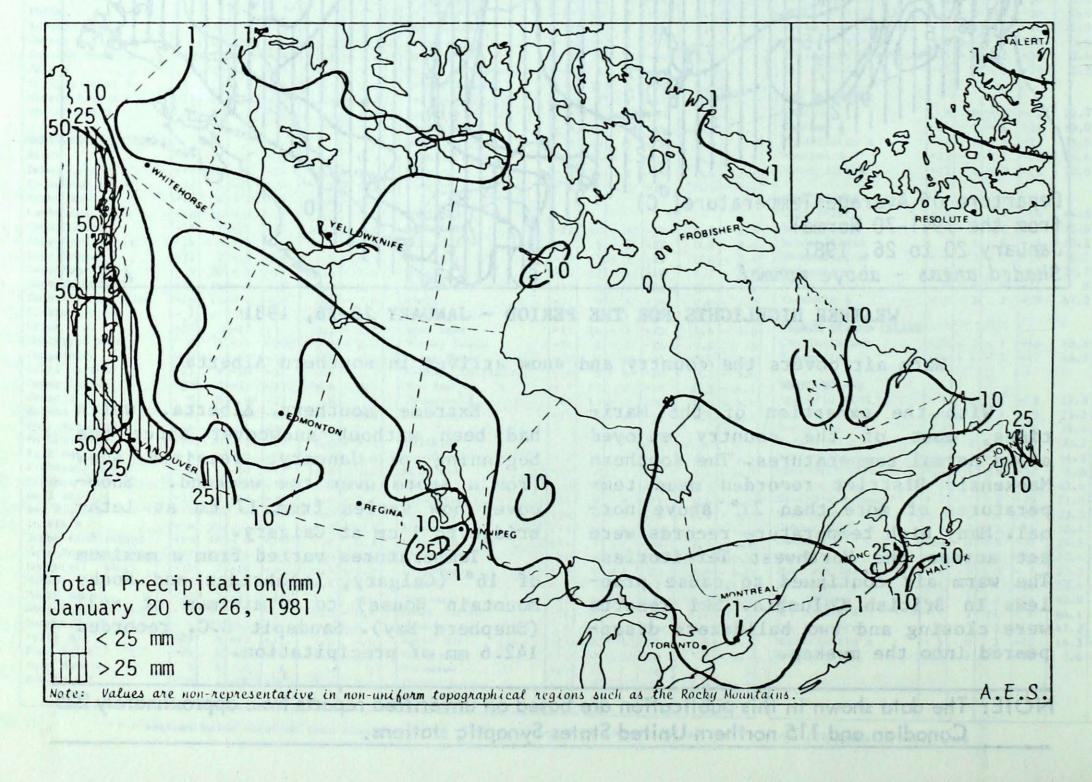
Relatively warm air dominated the Territories this week. Mean temperatures were more than 9° above normal in most areas. The southern Mackenzie District enjoyed mean temperatures more than 21° above normal. Numerous high temperature records were set, some exceeding the previous record maximum by 10°. The mercury reached 8° at Fort Smith and Hay River on January 20th. The temperature fell to -42° at Shepherd Bay on January 26th.

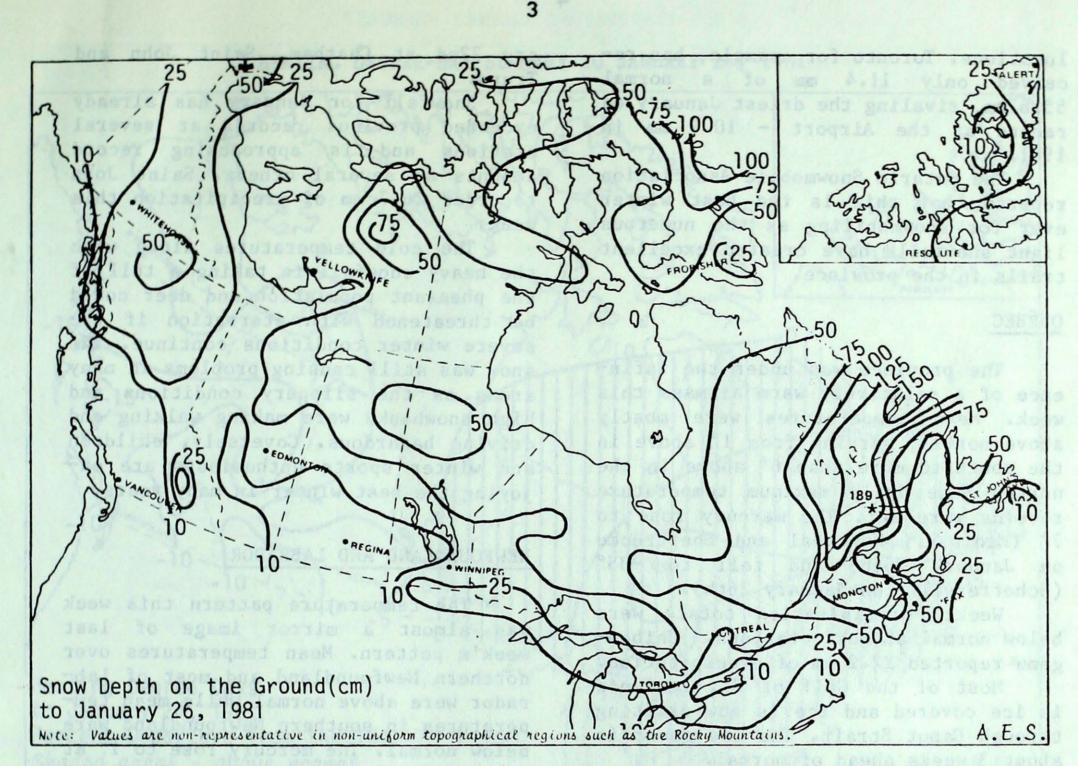
Precipitation was generally light with the exception of Chesterfield which recorded 16.3 mm of precipitation for the week.

BRITISH COLUMBIA

All areas of the province continued to enjoy mild weather. Mean temperatures were more than 6° above normal and northeastern areas exceeded 18° above normal. The mercury reached 15° on January 20th (at Abbotsford, Cape Scott, Prince Rupert and Vancouver) and fell to -25° at Dease Lake on January 26th.

Weekly precipitation totals were above normal along northern coastal areas and in southeastern portions of





the province. Sandspit recorded 142.6 mm of precipitation. The normal snowfall for Castlegar during January is 78.8 cm; so far Castlegar has received 1 cm.

The warm weather was forcing some ski resorts in southern areas to close. Logging operations in central and northern areas were slowed or stopped completely. Seismic activity was hampered and two caterpillar bulldozers were lost when they broke through the frost and disappeared into the muskeg. Alberta, which had been without snowcover since the beginning of January, were reporting 10 cm to 17 cm on the ground in the south to 1 cm at Calgary. Winnipeg received 17.5 cm of snow and the airport was closed for 8 hours on Sunday. Unofficial reports from the Pembina Valley southwest of Winnipeg reported 69 cm of snowfall. Pilot Mound recorded 34.4 mm of precipitation for the week, most of which fell on the 25th.

ONTARIO

PRAIRIE PROVINCES

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Mean temperatures rose even higher above the normal this week. Most areas exceeded 12° above normal and some areas of northern Alberta were more than 21° above normal. The mercury reached 16° at Calgary and Lethbridge on January 20th and at Rocky Mountain House on January 22nd. It fell to -31° at Cree Lake on January 26th.

Over the weekend a snowstorm affected extreme southern portions of the prairies. The extreme southern areas of The proverbial January thaw arrived just about on schedule in southern and central Ontario this week, as temperatures reached 5° to 8° on January 26th. Muskoka, Trenton and Wiarton all equalled record maximum temperatures for the day with 8° readings. Mean temperatures in western Ontario exceeded 12° above normal. The mercury fell to -29° at Lansdowne House on January 26th.

Total precipitation still continues below normal for January in many The Ontario Snowmobile Association reports that this is the best winter ever for snowmobiling as the numerous light snowfalls have created excellent trails in the province.

QUÉBEC

The province was under the influence of a relatively warm airmass this week. Mean temperatures were mostly above normal, varying from 1° above in the south to more than 6° above in the north. Some daily maximum temperature records were set. The mercury rose to 7° (Maniwaki, Montréal and Sherbrooke on January 26th) and fell to -35° (Schefferville on January 26th).

Weekly precipitation totals were below normal at most stations. Chibougamu reported 22.2 mm of precipitation. Most of the Gulf of St. Lawrence is ice covered and ice is now drifting through Cabot Strait. The ice cover is about 3 weeks ahead of normal.

MARITIMES

The cold weather covering the Maritimes moderated this week. By week's end temperatures rose above freezing for one of the few times this month and some rain was reported. The mercury reached 6° at Greenwood on January 26th and fell to -24° on January 22nd at Chatham, Saint John and Truro.

Snowfall for January has already exceeded previous records at several stations and is approaching record amounts at several others. Saint John recorded 26.7 mm of precipitation this week.

The cold temperatures along with the heavy snowfall is taking a toll of the pheasant population and deer could be threatened with starvation if the severe winter conditions continue. The snow was still causing problems in many areas as the slippery conditions and high snowbanks were making walking and driving hazardous. Coversely, children and winter sports enthusiasts are enjoying the best winter in many years.

NEWFOUNDLAND AND LABRADOR

The temperature pattern this week was almost a mirror image of last week's pattern. Mean temperatures over northern Newfoundland and most of Labrador were above normal while mean temperatures in southern Newfoundland were below normal. The mercury rose to 1° at Argentia and Burgeo during the period of January 24th to 26th and fell to -37° at Wabush Lake on January 22nd.

Precipitation totals were below normal at most stations. St. John's recorded 30.5 mm of precipitation for the week.

The ice off Labrador is 100-160 km wide and extends southeast of Newfoundland to Notre Dame Bay.

CLIMATIC PERSPECTIVES

Staff

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Editor:

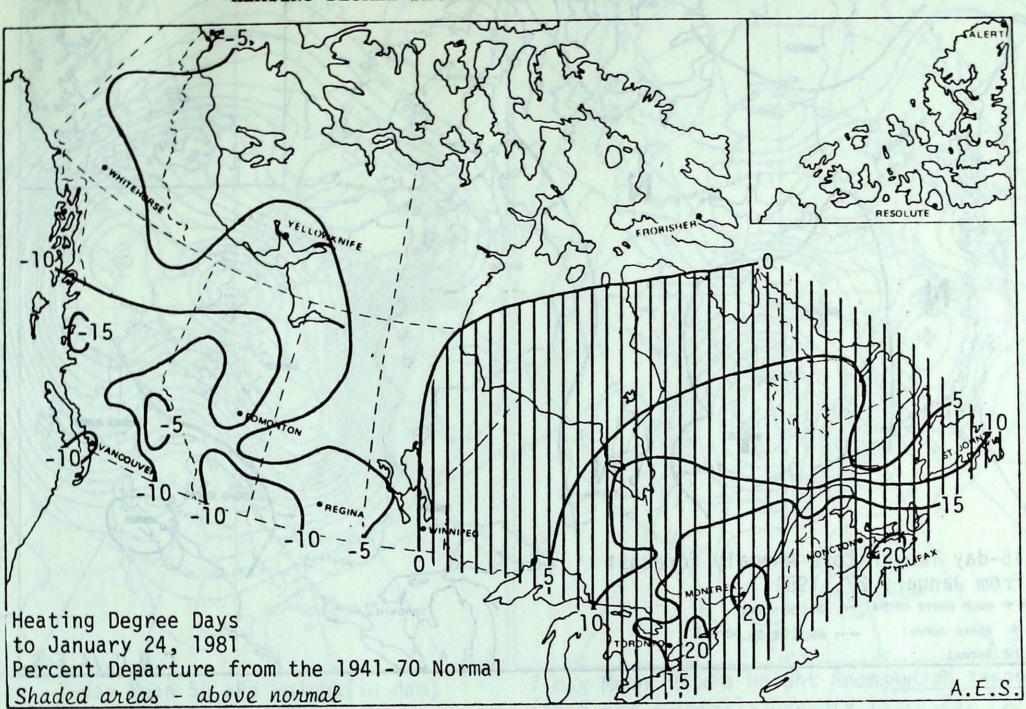
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HEATING DEGREE-DAY SUMMARY TO JANUARY 24, 1981

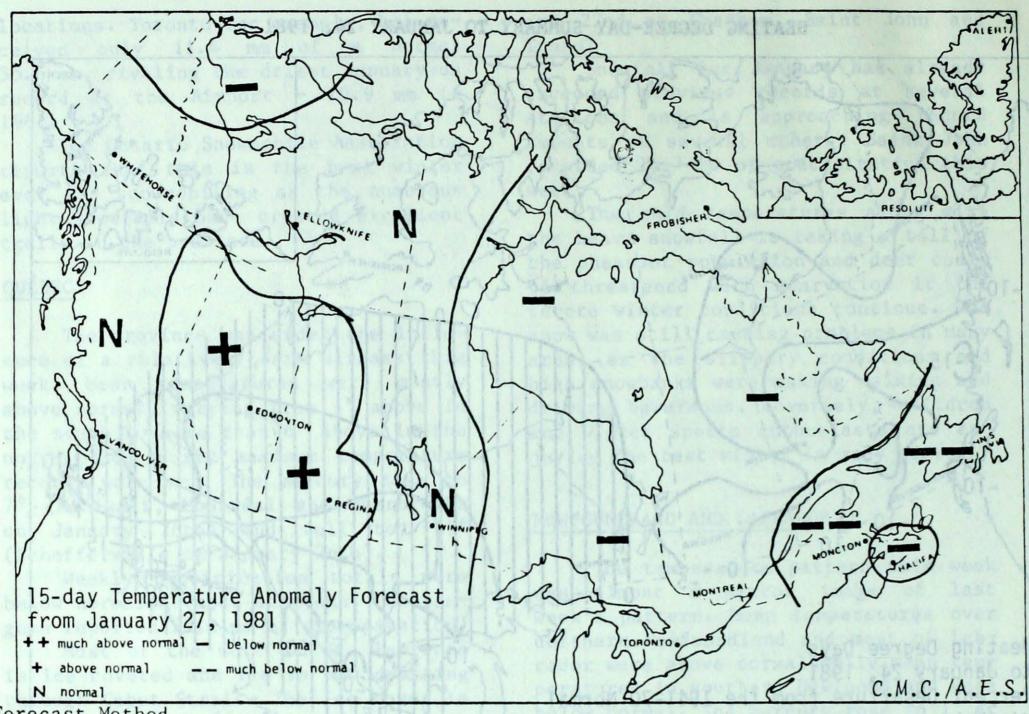
15 DAY TEMPERATURE & MOMALY FOURCAST

STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL		
Resolute	1087.0	-117.0	6376.5	-156.5	98		
Inuvik	758.0	-405.0	5072.5	-307.5	94		
Whitehorse	472.0	-421.0	3667.5	-230.5	94		
Vancouver Int'l A	295.0	-82.0	1489.5	-119.5	93		
Edmonton Mun A	511.0	-276.0	2734.0	-341.0	89		
Calgary Int'l A	409.5	-279.5	2502.0	-365.0	87		
Regina	677.0	-165.0	2925.0	-240.0	92		
Winnipeg Int'l A	765.5	-95.5	3104.0	-4.0	100		
Thunder Bay	753.5	-32.5	3090.5	102.5	103		
Windsor	622.0	92.0	2073.0	235.0	113		
Toronto Int'l A	708.5	128.5	2401.5	335.5	116		
Ottawa Int'l A	819.0	123.0	2873.0	431.0	118		
Montreal Int'l A	837.0	174.0	2872.5	571.5	125		
Quebec	661.5	158.5	3122.0	509.0	119		
Saint John, N.B.	741.0	138.0	2712.0	357.0	115		
Halifax	602.5	87.5	2263.5	341.5	118		
Charlottetown	691.0	106.0	2536.5	354.5	116		
St. John's, Nfld.	496.5	-13.5	2474.5	220.5	110		

STREETSY REPERSIONS A REAL PROPERTY

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6 15 DAY TEMPERATURE ANOMALY FORECAST



Forecast Method

Analogue technique based on point prediction at 70 Canadian stations.

Temperature Scale

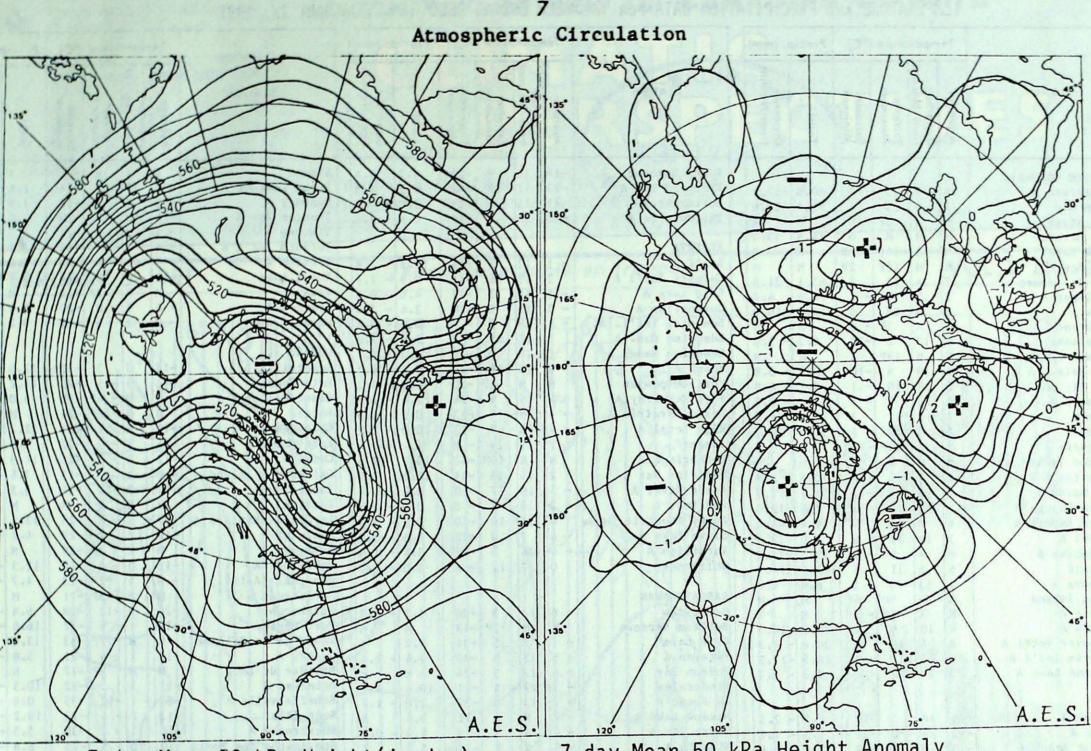
Each temperature class is designed to contain 20% of the historically observed 15 day means pertinent to specific location and time of year:

Station Barrier	Current I	Cemperature Anomaly Forecast
Whitehorse	Near Normal	Within 1.6° of Normal
Victoria	Near Normal	Within 0.6° of Normal
Vancouver	Near Normal	Within 0.6° of Normal
Edmonton	Above Normal	From 1.4° to 4.7° above Normal
Regina	Above Normal	From 1.3° to 4.2° above Normal
Winnipeg	Near Normal	Within 1.1° of Normal
Thunder Bay	Below Normal	From 0.9° to 3.0° below Normal
Toronto	Below Normal	From 0.7° to 2.4° below Normal

Ottawa Montreal Quebec Fredericton Halifax Charlottetown St. John's Goose Bay Frobisher Bay Inuvik Below Normal Below Normal Much Below Normal Much Below Normal Below Normal Below Normal Below Normal Below Normal Below Normal Below Normal

From 0.8° to 2.7° below Normal From 0.8° to 2.7° below Normal More than 2.9° below Normal More than 2.9° below Normal From 0.7° to 2.2° below Normal From 0.8° to 2.6° below Normal More than 2.3° below Normal From 1.3° to 4.5° below Normal From 1.5° to 5.1° below Normal From 1.3° to 4.2° below Normal

Note: Anomaly denotes departure from the 1949-73 mean.



7-day Mean 50 kPa Height(in dam) January 19 to 25, 1981

The mean atmospheric circulation across North America continued much the same as last week except for the major features having shifted slightly more to the east.

The anomalous 50 kPa ridge presided over western and central Canada as did the long wave trough over the eastern half of the country. Height anomalies contrasted sharply from west to east. They were more than 30 dam above normal over northern Saskatchewan and Manitoba while negative heights of more 7-day Mean 50 kPa Height Anomaly (in 5 dam intervals)January 19 to 25, 1981

This permitted atmospheric triggering pluses and their associated low pressure distrubances to track inland across the Continental Divide.

Mild temperatures pushed eastward encompassing most of the country. Even areas under the influence a northwesterly flow have experienced above normal mean temperatures; this due to the fact that the normally very cold air in the Canadian Arctic has been temporarly exhausted.

Precipitation amounts across the

than 20 dam were evident over the Atlantic Provinces.

The well established Omega Block over western North America continued to deflect Pacific cyclonic systems northeastwards. During the latter half of the period a split in the upper flow developed, with the base of the ridge taking on a more west-east trajectory over the northwestern United States. country were generally light. The Atlantic provinces have received a long awaited repreive. Heavier precipitation fell in southern British Columbia and southern Alberta due to a more on-shore trajectory of the surface storm track. A freak narrow band of heavy snow fell on parts of southern Manitoba Sunday due to a well developed but dry low pressure system approaching the upper Great Lakes.

Andy Radomski

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. JANUARY 27, 1981

Te		Temperature (°C)		Precip. (mm)		AND	Ter	Temperature (°C)			Precip. (mm)		N. C. State State State State	Temperature (°C)				Precip. (mr		
Station Average Departure	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal	Station	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total Departure from Normal		Station	Average	Departure, from Normal	Extreme Maximum	Extreme Minimum	Total	Departure	
ARITISH COLUMBIA Abbotsford A Alert Bay Blue River Bull Harbour Burns Lake Cape Scott Cape St. James Castlegar A Comox A Cranbrook Dease Lake Estevan Point Fort Nelson A Cort Nelson A Cort St. John A Camloops A Angara Lytton Mackenzie A Acinnes Island Penticton A Cort Hardy A Prince George A Crince Rupert A Mesnel A Levelstoke A Andspit mithers A pring Island	8 7 M M M M M M 7 2 8 M 7 5 M 4 7 5 M M 4 7 1 6 3 0 6 1 M	7 5 X M X M 4 5 6 M 13 M 19 18 12 5 5 X M 7 5 15 7 16 4 5 13 M	15 13 1P M 11P 15P 11 9 14 3P 2 13P 6 10 9 11 12 10P M 10 14 13 15 14 6 11 10 9P	$\begin{array}{c} 3 \\ 1 \\ - 3 \\ 0 \\ -10P \\ 2P \\ 4 \\ - 2 \\ 1 \\ - 8 \\ -25 \\ 2 \\ -16 \\ -11 \\ - 1 \\ 3 \\ - 2 \\ - 9P \\ M \\ - 2 \\ - 1 \\ - 8 \\ 0 \\ - 6 \\ - 6 \\ 1 \\ - 5 \\ 4P \end{array}$	55.4 M 74.8 M 63.1 18.0 58.0 M 1.3 M 0.7 0.2 2.4 45.2 31.6 M M 10.9 51.1 2.4 79.4 1.0 19.3 142.6 6.8 M	-13.3 23.6 X 33.3 X M 31.5 4.7 16.0 M - 3.8 - 6.8 - 6.2 14.0 20.7 X M 2.8 12.3 -12.0 41.0 -13.8 -11.0 114.9 - 4.7 M	Sachs Harbour Shepherd Bay A Tuktoyaktuk Yellowknife A ALBERTA Banff Calgary Int'l A Cold Lake A Coronation A Edmonton Int'l. A Edmonton Mun. A Edmonton Mun. A Edmonton Namao A Edson A Fort Chipewyan Fort Chipewyan Fort McMurray A Grande Prairie A High Level A Jasper Lethbridge A Medicine Hat A Peace River A Red Deer A Rocky Mountain House Slave Lake A Vermilion A Whitecourt SASKATCHEWAN	$ \begin{array}{r} -14 \\ -23 \\ -11 \\ -7 \\ -1 \\ 2 \\ -5 \\ -3 \\ -1 \\ 1 \\ 0 \\ 0 \\ M \\ -4 \\ -4 \\ 1 \\ M \\ 2 \\ -3 \\ -2 \\ 0 \\ -4 \\ 0 \\ \end{array} $	16 11 15 21 12 15 15 15 15 15 18 17 17 10 M 19 15 20 15 M 16 18 15 14 9 16 17	- 9 -13 - 5 1 9 16 5 6 7 11 8 14 6P 9 5 9 11 16P 15 7 7 16 3 5 11	-23 -42 -18 -16 -11 -12 -10 -7 -5 -6 -10 -12 -14 -13 -13 -13 -13 -13 -13 -14 -10 -12 -12 -14 -10 -12 -30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 4 8 1 6 9 6 2 7 2 1 9 9 2 4 6 9 1 6 1 9 9 2 4 2 4 2 1 9 9 2 4 2 4 2	Simcoe Sioux Lookout A Sudbury A Thunder Bay A Timmins A Toronto Int'l A Trenton A Trout Lake Wawa A Wiarton A Windsor A QUEBEC Bagotville A Baie Comeau Blanc Sablon Border Chibougamau Fort Chimo A Gaspé A Grindstone Island Inoucdjouac Koartak La Grande Rivière A Maniwaki Matagami A Mont-Joli A Montréal (A int.) Natashquan A Nitchecun	$\begin{array}{c} 0 \\ -7 \\ -8 \\ -5 \\ -9 \\ -4 \\ -5 \\ -11 \\ M \\ -4 \\ -2 \\ -12 \\ -12 \\ -12 \\ -14 \\ -24 \\ -12 \\ -8 \\ -21 \\ M \\ -17 \\ -10 \\ M \\ -11 \\ -8 \\ M \\ -20 \end{array}$	X 1 X - 2 5 X X 2 X 0 1 M	4 1 6 8 0 3P 8 5 - 4P -21P 1 - 9 - 3 0 -11 M - 8 7 - 2P - 2P - 5 - 5 - 4P - 2 - 5 - 4P - 2 - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 4P - 5 - 5 - 4P - 5 - 5 - 4P - 5 - 5 - 4P - 5 - 5 - 4P - 5 - 5 - - 4P - 5 - - 5 - - 4P - 5 - - 5 - - - 7 - 5 - - - - 2P - - - 2P - - - - - - - - - - - - -	-20 -11 -22 -26 -16 -24 -31 -32 -26 -15 -32 M -25 -29 -29 -17 -22 -21 -28	M 1.6 1.8 0.0 9.0 2.3 0.0 2.5 M 0.4 0.2 12.6 11.2 5.0 M 22.2 2.0 11.9 3.4 5.2 M 13.1 4.22 M 12.3 4.7 M	
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P = extreme value based on less than 7 days

A. W.

X = no normal due to short period

M = not available at press time